

Joint Capabilities Integration & Development System



JCIDS Overview



30 November 2005

**Joint Staff / J-8
Capabilities and Acquisition Division**



Previous Requirements and Acquisition Process

- As a rule, CONOPs and Requirements were **Service-focused**
- Analysis was primarily **threat-based**
- Process **lacked** a construct for Joint analysis **“up-front”**
- Systems integration tended to be **forced in at end game**
- **Duplication existed**, particularly in smaller programs
- Spiral acquisition was not well institutionalized
- Joint warfighting needs were **not prioritized**



Joint Capability Integration and Development System

- GOAL: Provide the Joint Force with the capabilities needed to perform across the range of military operations and challenges.
- Thru:
 - Integrated, collaborative review process.
 - Leveraged expertise of all government agencies.
 - Application of Joint Operating Concepts and

JCIDS along with the Defense Acquisition System and the Planning, Programming, Budgeting and Execution processes form the principal DOD decision support processes for transforming the military forces to support the national military strategy and the defense strategy



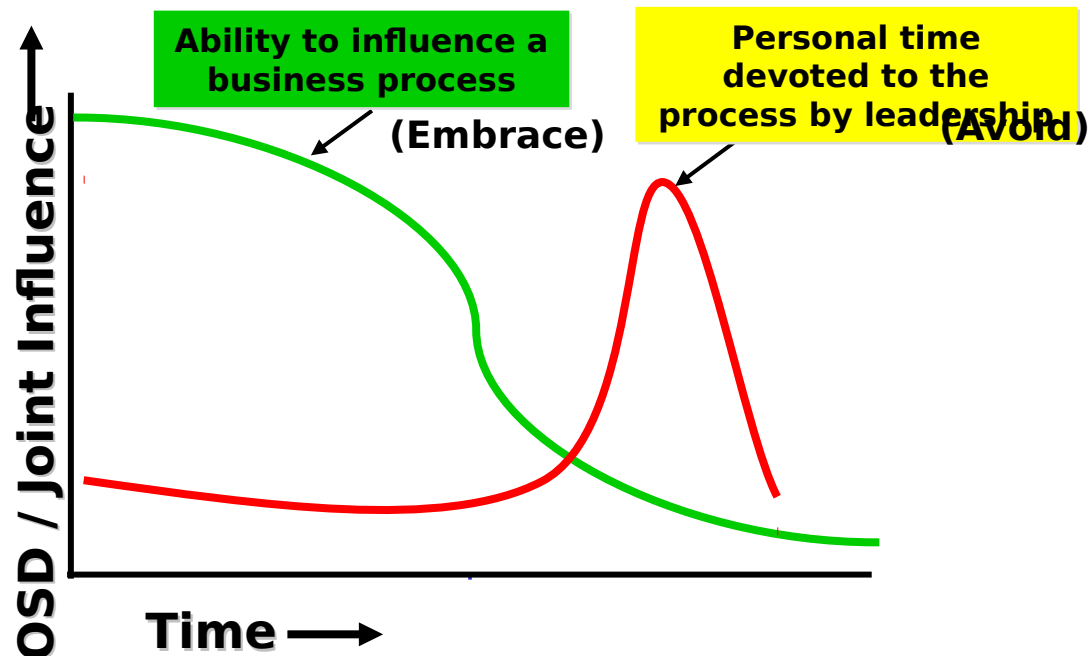
JROC Impact using JCIDS

• Desired Attributes of DOD Decision Process

- Responsive
- Flat
- Involve leaders "when it counts"
- Agree on facts

• CJCSI 3170.01E

- Top down
- Born "Joint"
- Tee up issues with wider input early in the process prior to major commitment of resources

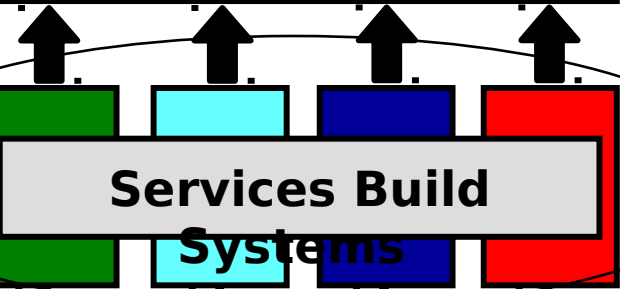


Action Agent:
Functional Capabilities Boards



Threat- vs Capability-Based Methodology

*Requirements Generation
System (RGS)- ~30 years of
experiences*





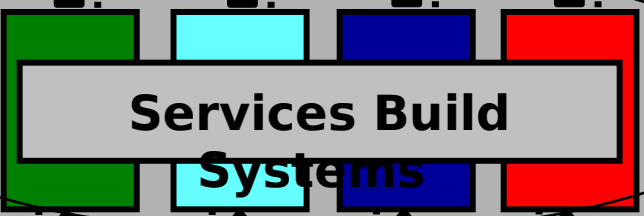
Threat vs Capability Based Planning

Requirements Generation System (RGS)- ~30 years of experiences

Joint Capabilities Integration and Development System (JCIDS)- 2 years old



Late Integration



Service Experimentation, Assessment & Analysis, Validation, Selection of Solutions

Service Unique Strategic Visions and Requirements

Strategic Direction

Joint Warfighting Concept Development

Joint Experimentation, Assessment & Analysis, Validation, Selection of Solutions



Joint Capabilities

Capabilities-Based Planning (CBP) Ongoing Efforts



Strategic Guidance (OSD (P))

- NDS
- NMS
- SPC (Jan 06)
- QDR Report (6 Feb 06)
- SPG (Mar 06)
- JPG (Apr/May 06)

PPBE (OSD (C/PA&E))

- Change Proposals (CP) submitted 6 Sep
- OSD adjudication on CPs due 30 Sep
- Program Review SLRGs (Nov 05)
- PDMs/PBDs (Nov 05)
- FY07 PB submission (6 Feb 06)

DoD 5000 (OSD)

- QDR efforts examining Effective Enterprise Leadership (EEL)
- Defense Acquisition Performance Assessment Panel (DAPA)
- OSD AT&L/J8 sponsored "Baton Hand-off" Study Part II
- Coordination of roadmap business rules

CBP

Joint Concepts (J7)

- CCJO approved 3 Aug 05
- CJCSI 3010.02B GO/FO Comment resolution
- JFCOM preparation/staffing of joint CDE Cplan
- JOCs under revision; ver 2.0 due Jun 06
- Develop Blue CONOPS to spt DPS development

Analytic Agenda (OSD (P)/J-8)

- Operational Availability 06 in progress
- DPS Development (2 new scenarios) begins Sep 05
- MSFD Development- 1 in-progress, MSFD development for new DPS to begin Dec 05
- Global Force Management Data Initiative

JCIDS (J8)

- FCB Stakeholder Conference taskings
- Development of "capability roadmap" definitions and uses
- Coordination of roadmap business rules
- Prioritization of FCB portfolios
- Develop methods cross FCB prioritization
- Develop/implement JCA business rules

Common Lexicon - Joint Capability Areas



What is JCIDS?

What is a JCIDS responsibility...

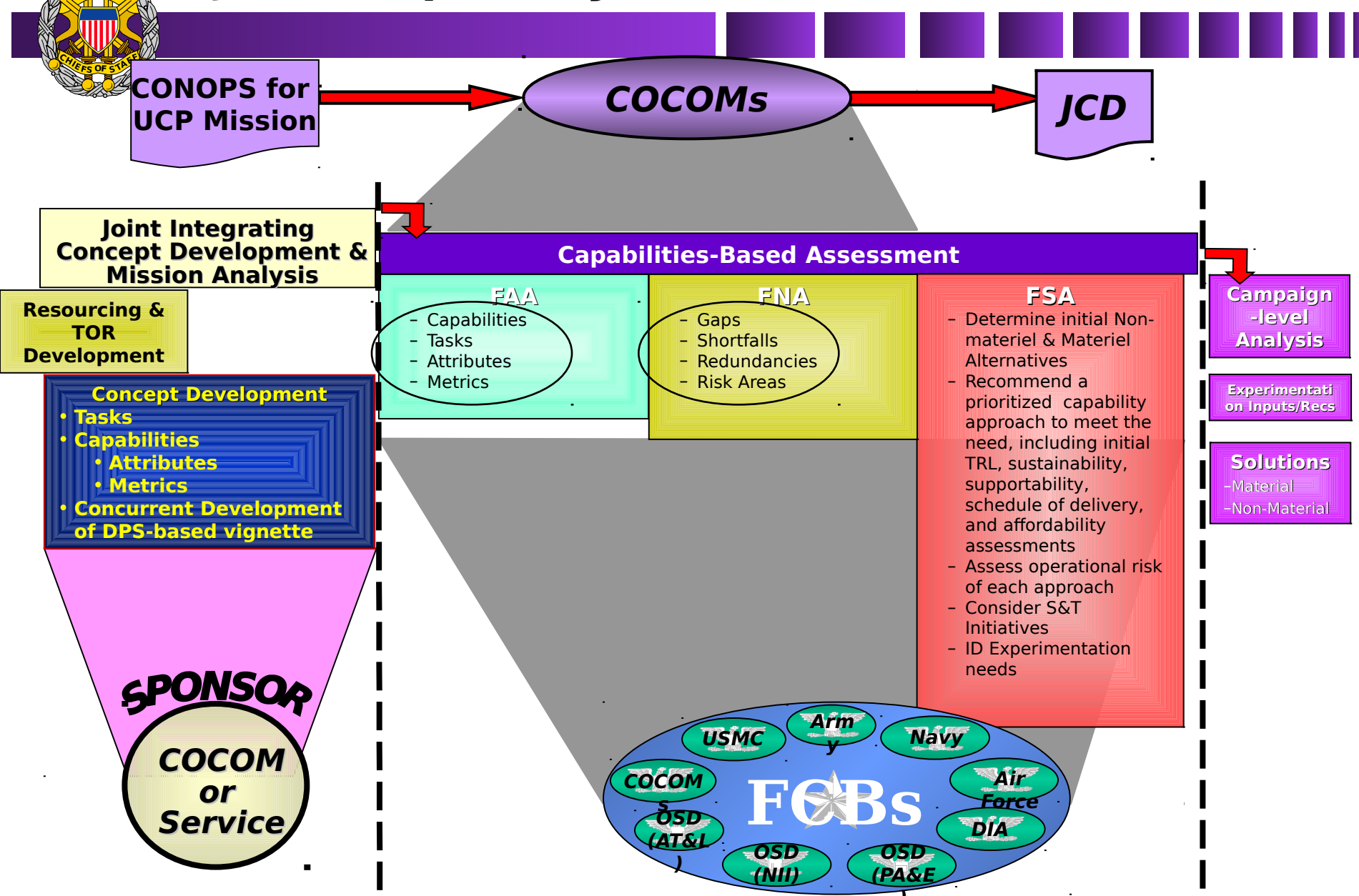
- Ensures the joint force has the capabilities to perform across the range of operations
- Is a primary interface to the DoD acquisition system
- Implements an integrated process to guide new capabilities development
- A key linkage on how the future joint force will fight
- Provides the analytic baselines to support studies to inform capability development
- Leverages expertise to identify improvements to existing capabilities and to develop new warfighting capabilities

What is NOT a JCIDS responsibility...

- Is not capabilities-based planning
- Is not DoD 5000
- The JROC is not JCIDS
- Joint Concepts are not JCIDS
- The Analytic Agenda is not JCIDS



The JROC Capability-Based Assessment Process





Agile DOD End-to-End Concepts, Capabilities, and Acquisition Process

DAB Capability Area Reviews (CARs)

- Strategic Planning Guidance
- Defense Planning Scenarios
- Family of Concepts
- Transformation

Capabilities Based Assessment

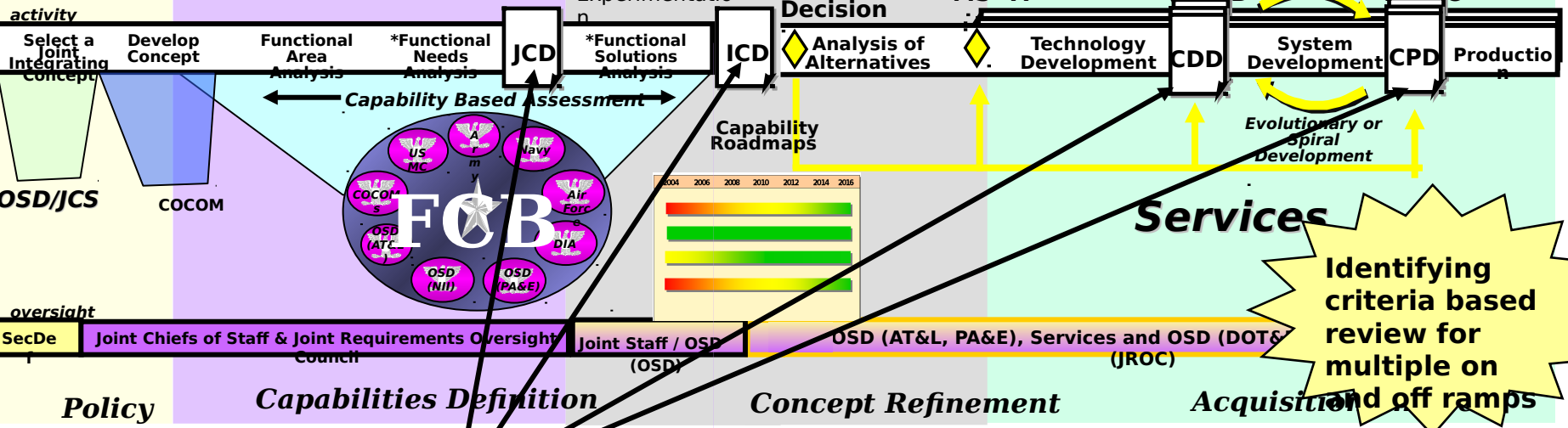
- Capabilities Gaps
- Tasks
- Attributes
- Metrics
- Shortfalls
- Redundancies
- Risk areas
- Non-materiel solutions
- Materiel solutions
- S+T initiatives

- Refined concept
- Analysis of Alternatives
- Technology Development Strategy
- SoS System Engineering

- Affordable military-useful increment
- Technology demonstrated
- Initial KPPs
- SEP

- Revise KPPs
- Detailed design
- System integration
- DT&E

- LRIP
- IOT&E



COCOM/Service

Near-term Capabilities

As part of the agile process

PLs, LL, GWOT, DCRs, ACTDs, JUONs, etc.

PPBE (PDM, PBD)

JRAC



Continuum of Capability Documents

“Joint Capabilities Document” (JCD)

- **Identifies capability gaps or other deficiencies**
- **Supports development of one or more ICDs**
- **Developed primarily by COCOMs and FCBs**
- **Can be developed by a sponsor under certain conditions**
- **Updated as required**

“DOTMLPF Change Recommendation” (DCR)

- **Identifies an approach to filling a capability gap through non-material changes**
- **Developed primarily by COCOMs**
- **Formerly described in CJCSI 3180.01**



Continuum of Capability Documents

MNS and ORD replaced by:

“Initial Capabilities Document” (ICD)

No Key Performance Parameters

Defines capability gap in terms of the functional area, the relevant range of military operations & timeframe

- Describes capability gaps
- Guides Concept Refinement and Technology Development phases

• *Replaces Mission Needs Statement*

“Capability Development Document” (CDD)

Threshold Objective

KPP 1

KPP 2

KPP 3

KPP 4

- Introduces KPPs
- “ROM” costs estimates
- Guides System Development & Demonstration phase by defining measurable & testable capabilities
- *Replaces Operational Requirements Document*

“Capability Production Document” (CPD)

Threshold Objective

KPP 1

KPP 2

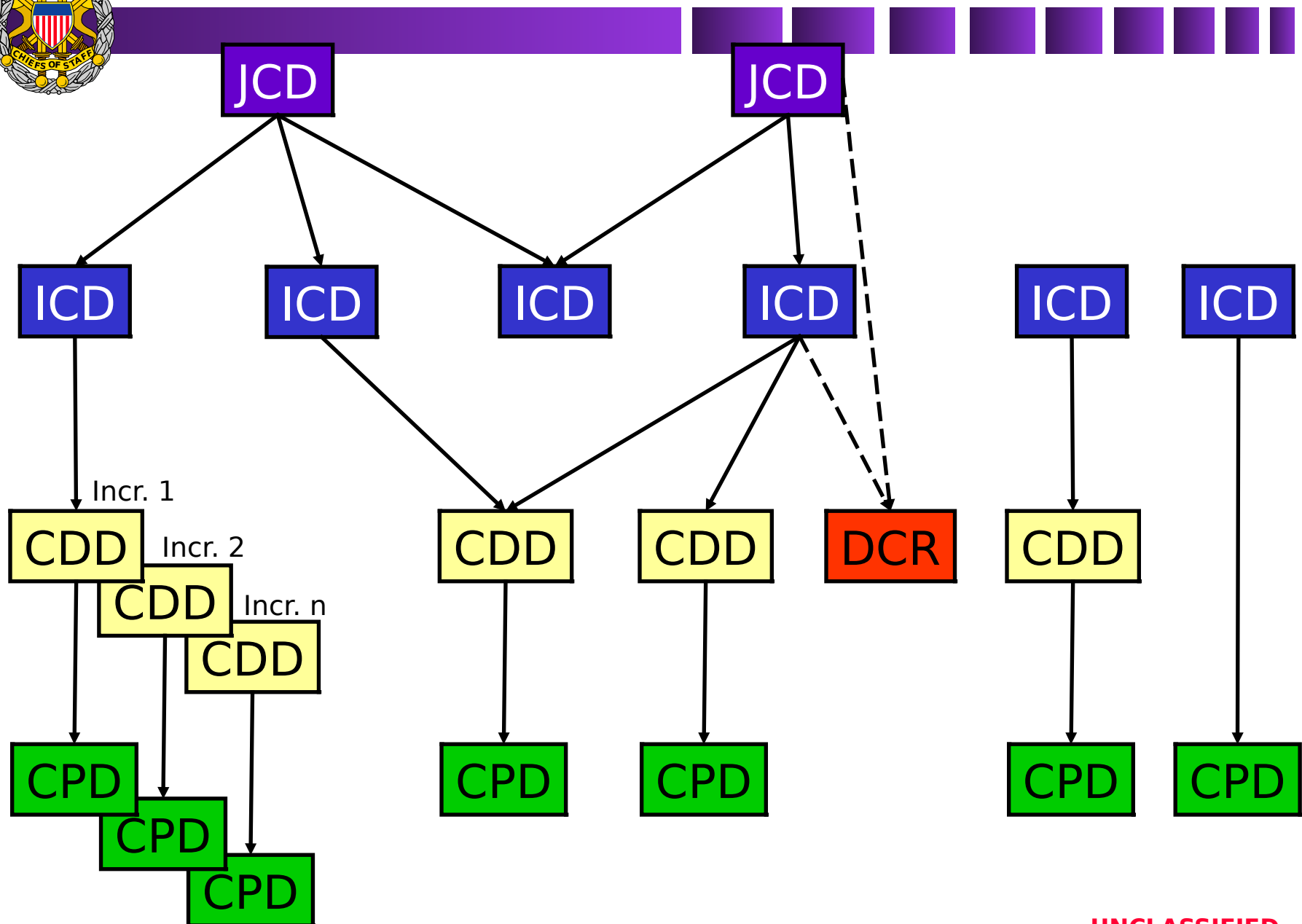
KPP 3

KPP 4

- Refines KPPs and performance attributes (***Key change from CDD**)
- Refines Cost & Engineer estimates
- Guides Production and Deployment (used to measure the contractor’s delivery)
- *Replaces ORD Update (for Production Decision)*



Hierarchy of Capability Documents





JCIDS Gatekeeper

- **Perform an initial review of all JCIDS proposals**
 - **Support provided by JFCOM, J6, J7, J8, FCB WGs**
- **The Gatekeeper will determine:**
 - **Joint Potential Designator**
 - **JROC Interest**
 - **Joint Integration**
 - **Joint Information**
 - **Independent**
 - **Lead and supporting Functional Capabilities Boards**



Chartered FCBs

JROC:

- * Charters FCBs
- * Directs FCB efforts
- * Identifies the

FCBs:

- * Milestone Decision Authority Co-chairs
- * Bring all stakeholders together for common review and issue resolution

Command & Control

Maj Gen Simpson
JFCOM J-8

Battlespace Awareness

Brig Gen Dettmer
JS J-2

Logistics

RDML Harnitchek
JS J-4

Force Management

Ms Disbrow
(SES)
JS J-8

Force Protection

MG Bromberg
JS J-8

Force Application

Brig Gen Hunt
JS J-8

Net-Centric

MG Moran
JS J-6

Joint Training

BG Bartell
JS J-7
Tri-chair

Functional Capabilities Board



Responsibilities:

- **Ensure new capabilities are conceived and developed in joint warfighting context**
- **Ensure JCIDS proposals are consistent with integrated joint force**
- **Organize, analyze & prioritize capabilities proposals**
- **Oversee development and update of Functional Concept(s)**
- **Ensure integrated architectures reflect the functional area**
- **Leverage full resources of the Department**



Oversight Body Comparison

**Joint Requirements
Oversight Council
(JROC)**

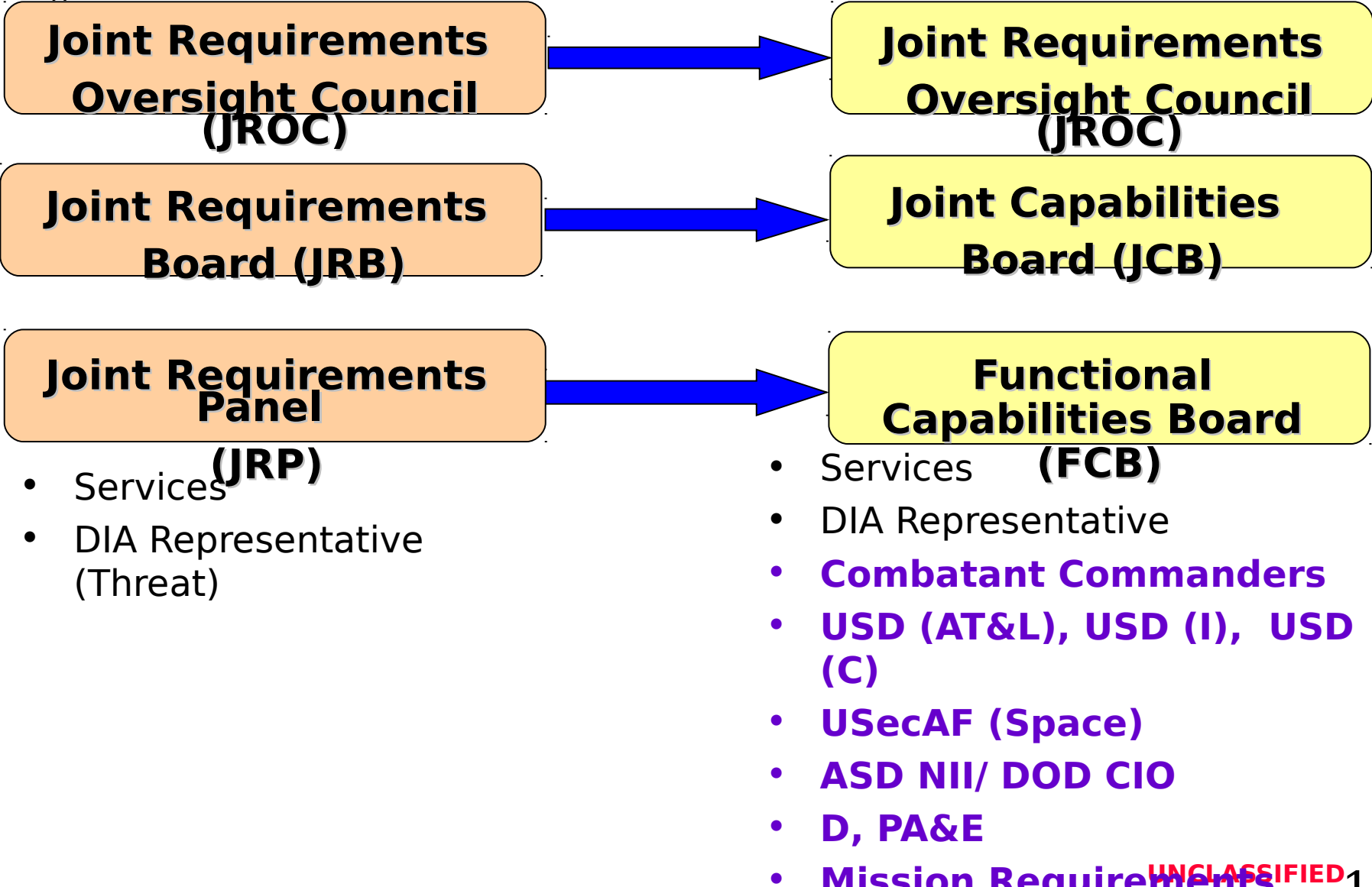
**Joint Requirements
Board (JRB)**

**Joint Requirements
Panel
(JRP)**

- Services
- DIA Representative
(Threat)

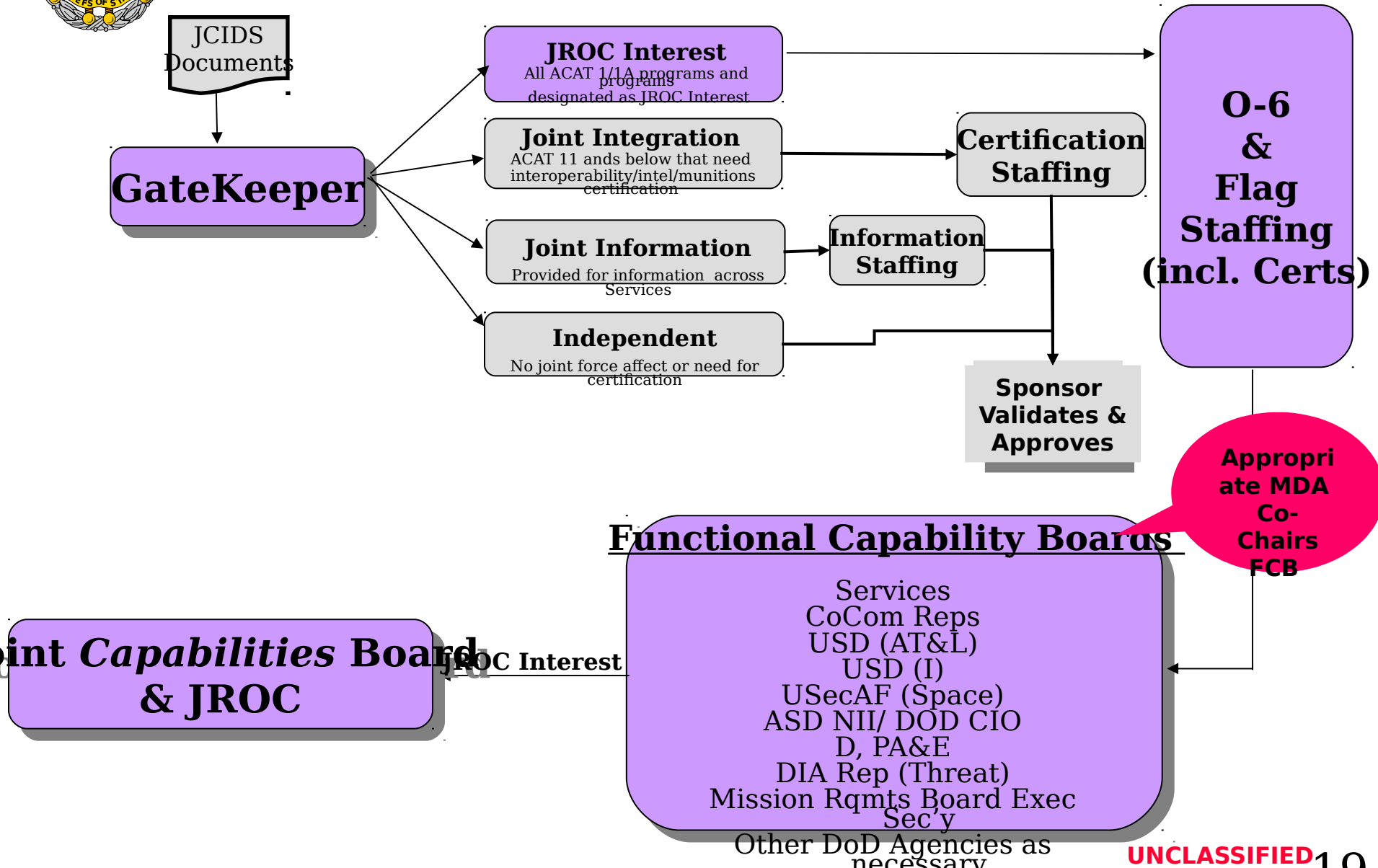


Oversight Body Comparison





JCIDS Staffing/Approval Process





JCIDS Staffing Streamlining

- **Gatekeeping done daily by J-8 CAD to expedite initiation of staffing**
 - JPD and FCB assignments corrected during staffing if required
- **O-6 staffing now 21 days vice 25**
- **Flag staffing may be bypassed if**
 - No Critical comments during O-6 staffing

Or

 - Critical comment resolution agreed to by sponsor, commenter and FCB
- **Joint Information JPD for those items with multi-Service interest, but no significant joint impact or certifications**
 - Staffed for information only to COCOMs and

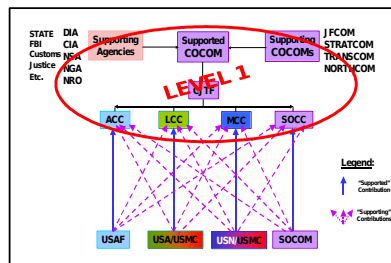


Tier 1 JCA Definition

A collection of similar capabilities grouped at a high level in order to support decision-making, capability delegation, and analysis. Tier 1 JCAs can be generated through any one of the following four sources:

- Provided to a regional COCOM by a supporting COCOM, Agency, or Service
- Delegated by a CJTF to one of his component commanders for execution as the 'supported commander'
- Provided through a Regional COCOM to a CJTF for execution by one of the JTF staff principals in order to deliver specific functional capability across all the components of the JTF
- Identified by senior leaders for Tier 1 visibility

A Construct for Joint Capability Areas – Level 1



Level 1 Joint Capability Areas are **collections of similar capabilities grouped at a high level** in order to support decision making, capability delegation, and analysis.

Joint Capability Areas can be generated through any one of the following four sources:

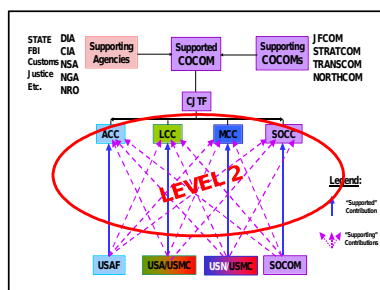
1. Capability Areas **generated and provided** to a regional COCOM by a supporting COCOM, Agency, or Service
2. Capability Areas **delegated by** a CJTF to one of his component commanders for execution as the 'supported commander'
3. Capability Areas **provided through** a Regional COCOM to a CJTF **for execution** by one of the JTF staff principals in order to deliver specific functional capability across all the components of the JTF
4. Capability Areas **identified by senior leaders** for Level 1 visibility

Tier 2 JCA Definition



A functional or operational capability with sufficient detail to support CJTF-level operations/missions, or joint force generation/management activities. Tier 2 JCAs scope, bound, clarify, and better define the intended mission set of their Tier 1 JCAs. They prevent duplication between Tier 1 JCAs, and are not Service or platform specific.

A Construct for Joint Capability Areas - Level 2



Level 2 Joint Capability Areas capture functional and operational detail that translate to CJ TF-level operations/missions.

Level 2 Joint Capability Areas:

- Scope, bound, clarify and better define the intended mission set of the Level 1 capability category
- Prevent duplication between high-level categories
- Are not Service or platform specific
- Strive to link to existing Service capability frameworks
- Are subject to periodic review/refinement



Joint Capability Areas Tier 1 / 2

- **Joint Force Generation** - Man, Equip, Organize, Develop Skills
- **Joint Force Management** - Global Posture, Global Force Management, Planning, Future Capability Identification
- **Joint Battlespace Awareness** - Planning and Direction, Observation and Collection, Processing and Exploitation, Analysis and Production, Dissemination and Integration, Evaluation and Feedback
- **Joint C2** - Exercise Command Leadership, Develop Shared Situational Awareness and Understanding, Communicate Commander's Intent and Guidance, Plan Collaboratively, Synchronize Execution Across all Domains, Monitor Execution, Assess Effects and Adapt Ops, Leverage Mission
- **Joint Public Affairs Operations** - Public Affairs Op Planning, Public Info, Command / Internal Information, Community Relations
- **Joint Interagency / IGO/ NGO/ Coordination** - US Gov't Interagency Integration, Intergovernmental Organization Coordination, Nongovernmental Organization Coordination
- **Joint Protection** - Conventional Weapons Threat, Terrorist Threat, WMD Threat, Protection from Exploitation, Personnel Recovery
- **Joint Logistics** - Joint Deployment/Rapid Distribution, Agile Sustainment, Op Engineering, Force Health Protection, Joint Theater Logistics, Logistics Information Fusion, Multinational Logistics
- **Defense Support of Civilian Operations**

Joint Capability Areas Tier 1 / 2



- **Joint Homeland Defense** - Air and Space Defense, Land Defense, Maritime Defense, Critical Infrastructure Protection
- **Joint Global Deterrence** - Global Strike, Global Defense, Force Projection, Responsive Infrastructure, Inducements
- **Joint Shaping** - Military Diplomacy, Presence, Security Cooperation, Defense Support to Public Diplomacy, Strategic Information and Engagement Coordination
- **Joint Stability Operations** - Humanitarian Assistance, Reconstruction, Security
- **Joint Information Operations** - Electronic Warfare, Computer Network Operations, Operations Security, Military Deception
- **Joint Access & Access Denial**
- **Joint Special Operations & Irregular Operations** - Special Recon, Direct Action, Counter-Terrorism, Unconventional Warfare, Foreign Internal Defense, Civil-Military Ops, PSYOP, Joint Irreg Warfare
- **Joint Land Operations** - Conduct Op Movement and Maneuver, Provide and Employ Joint Fires, Conduct Decisive Maneuver
- **Joint Maritime /Littoral Operations** - Surface Warfare, Undersea Warfare, Maritime Interdiction, Maritime/Littoral Expeditionary ops, Maritime/Littoral Fires
- **Joint Air Operations** - Offensive Counterair Ops, Strategic Attack, Air Interdiction, Tactical Air Support, Theater Air and Missile Defense



Joint Capability Areas Tier 1 / 2

- **Plan to include JCAs in all future capability definitions**
 - **JCDs and ICDs will identify the Tier 1/2 capability areas associated with the capabilities being defined.**
 - **CDDs and CPDs will identify the JCAs supported by and related to the systems being developed.**
 - **Joint DCRs will identify the relevant JCAs.**

JCIDS Success Stories



- **The IAMD CBA**
- **The IAMD Roadmap Ver 1.0 -
Approved by the JROC and USD/AT&L
May 05**
- **Soldier as a System ICD**
- **SOF Air Ground Interface System
(SAGIS) CDD**
- **The STRYKER ORD**
- **JCIDS provides a tool to quickly tie
Global War on Terrorism (GWOT)
findings to resource process.**

Potential Changes to JCIDS



•CBP Agility: JCIDS Changes:

- ACAT II delegated to the JCB
- JROC Interest JPD will establish what items receive JROC review
- Screening criteria can be modified based on Leadership directive
- All JCIDS documents will identify the relevant JCAs (Tier 1 and 2)
- The process for KPP change approval is accelerated
- Requirement for Post Independent Analysis not required for JROC directed CBAs
- JROC can re-validate the CDD as a CPD
- CBA Study Plan required for JROC directed CBA to establish scope
- Alternate CONOPS to be considered for JROC directed CBA
- Joint Experimentation will inform and be informed by the CBA
- Added interoperability information in the JCD and ICD to enable the JROC to better assess impact
- Additional threat information in JROC Briefs will clarify risks and actions taken to mitigate or counter
- CONOPS can be used as basis for CBA

Goal of the Capability Based Process



Policy

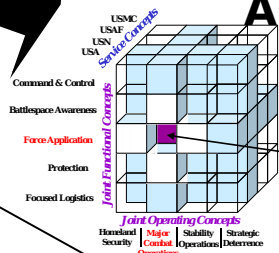
Strategic Planning Guidance

National Military Strategy

Operational Availability

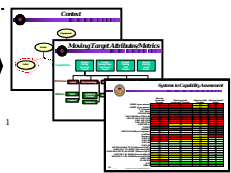
Assess end of program Forces in warfighting scenarios

Concepts



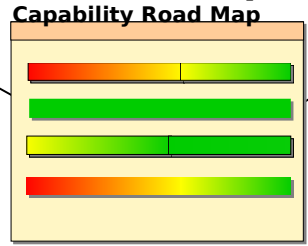
Capability Assessment

Functional Area * Functional Needs* Functional Solution



Provide Operational C with fielded Systems Capability Gap

assesses potential programmed capabilities in an warfighting operational context



- Top-down guidance
- Joint Concepts enables the warfighter to shape and influence the trade space debate
- Provides the “trade space” discussion at the right level

Process that decomposes from policy guidance to warfighting concepts to capability areas, to material and non material potential



QUESTIONS?

